

SEQUENCE LISTING

<110> Merck & Co., Inc.
Harada, Shun-ichi
Kasparcova, Viera
Glantschnig, Helmut

<120> RHESUS MONKEY DICKKOPF-1, NUCLEOTIDES
ENCODING SAME, AND USES THEREOF

<130> 21350

<150> 60/520,708
<151> 2003-11-17

<160> 22

<170> FastSEQ for Windows Version 4.0

<210> 1
<211> 801
<212> DNA
<213> Macaca mulatta

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gcgcataaga acctgcccccc accgctgggc ggcgcgtgcgg ggcaccagg ctctgcagtc 180
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tgcatgcgtc acgttatgtg ctgccccggg aattactgca aaaatgaaat atgtgtgtct 420
tctgatcaaa ataatttccg aggggaaatt gagaaacca ttactgaaag ctttggtaat 480
gatcatagca ctttgatgg gtattccaga agacaacat tgccttccaa aatgttatcac 540
agcaaaggac aagaagggttc tggatgtctc cggcatcag actgtgccac aggactgtgt 600
tggatgtac actgttgcgtc caagatctgt aaacctgtcc tcaaagaagg tcaagtgtgt 660
accaagcata gaagaaaaagg ctctcatggg ctagaaatat tccagcgttg ttactgcgg 720
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<210> 2
<211> 266
<212> PRT
<213> Macaca mulatta

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20 25 30
Leu Asn Ser Val Leu Asn Ser Asn Ala Ile Lys Asn Leu Pro Pro Pro
35 40 45
Leu Gly Gly Ala Ala Gly His Pro Gly Ser Ala Val Ser Ala Ala Pro
50 55 60
Gly Ile Leu Tyr Pro Gly Gly Asn Lys Tyr Gln Thr Ile Asp Asn Tyr
65 70 75 80
Gln Pro Tyr Pro Cys Ala Glu Asp Glu Cys Gly Thr Asp Glu Tyr

85	90	95
Cys Ala Ser Pro Thr Arg Gly Gly Asp Ala Gly Val Gln Ile Cys Leu		
100	105	110
Ala Cys Arg Lys Arg Arg Lys Arg Cys Met Arg His Ala Met Cys Cys		
115	120	125
Pro Gly Asn Tyr Cys Lys Asn Gly Ile Cys Val Ser Ser Asp Gln Asn		
130	135	140
Asn Phe Arg Gly Glu Ile Glu Glu Thr Ile Thr Glu Ser Phe Gly Asn		
145	150	155
Asp His Ser Thr Leu Asp Gly Tyr Ser Arg Arg Thr Thr Leu Ser Ser		
165	170	175
Lys Met Tyr His Ser Lys Gly Gln Glu Gly Ser Val Cys Leu Arg Ser		
180	185	190
Ser Asp Cys Ala Thr Gly Leu Cys Cys Ala Arg His Phe Trp Ser Lys		
195	200	205
Ile Cys Lys Pro Val Leu Lys Glu Gly Gln Val Cys Thr Lys His Arg		
210	215	220
Arg Lys Gly Ser His Gly Leu Glu Ile Phe Gln Arg Cys Tyr Cys Gly		
225	230	235
Glu Gly Leu Ser Cys Arg Ile Gln Lys Asp His His Gln Ala Ser Asn		
245	250	255
Ser Ser Arg Leu His Thr Cys Gln Arg His		
260	265	

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<212> DNA
<213> Artificial Sequence

<220>
<223> Rat Dkk-1 forward primer

<400> 3
ggctctggctt gcaggataca g

21

<210> 4
<211> 23
<212> DNA
<213> Artificial Sequence

<220>
<223> Rat Dkk-1 reverse primer

<400> 4
tggtttttagt gtctctggca ggt

23

<210> 5
<211> 26
<212> DNA
<213> Artificial Sequence

<220>
<223> Rat Dkk-1 Probe

<400> 5
ccatcaaacc agcaattctt ccaggc

26

<210> 6

<211> 26
<212> DNA
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<223> Human Dkk-1 forward primer

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<210> 8
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<212> DNA
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<220>
<223> Human Dkk-1 probe

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<212> DNA
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<220>
<223> Rhesus Monkey Dkk-1 forward primer

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<210> 10
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<212> DNA
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aagtgtgaag cctagaagaa ttactgg 27

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<400> 11
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<210> 12
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<400> 12
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<210> 13
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<223> 5'h Dkk-1 Reverse

<400> 13
cggttgaatt gagaaccgag ttca 24

<210> 14
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<210> 15
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<210> 16
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<223> h Dkk-1 R3

<400> 16

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<223> h Dkk-1 F3	
<400> 17	
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<211> 38	
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<212> DNA	
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<210> 21	
<211> 265	
<212> PRT	

<213> Homo sapiens

<400> 21

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						20			25					30	
Asn	Ser	Val	Leu	Asn	Ser	Asn	Ala	Ile	Lys	Asn	Leu	Pro	Pro	Pro	Leu
						35			40					45	
Gly	Gly	Ala	Ala	Gly	His	Pro	Gly	Ser	Ala	Val	Ser	Ala	Ala	Pro	Gly
						50			55					60	
Ile	Leu	Tyr	Pro	Gly	Gly	Asn	Lys	Tyr	Gln	Thr	Ile	Asp	Asn	Tyr	Gln
65						70			75					80	
Pro	Tyr	Pro	Cys	Ala	Glu	Asp	Glu	Glu	Cys	Gly	Thr	Asp	Glu	Tyr	Cys
						85			90					95	
Ala	Ser	Pro	Thr	Arg	Gly	Gly	Asp	Ala	Gly	Val	Gln	Ile	Cys	Leu	Ala
						100			105					110	
Cys	Arg	Lys	Arg	Arg	Lys	Arg	Cys	Met	Arg	His	Ala	Met	Cys	Cys	Pro
						115			120					125	
Gly	Asn	Tyr	Cys	Lys	Asn	Gly	Ile	Cys	Val	Ser	Ser	Asp	Gln	Asn	His
						130			135					140	
Phe	Arg	Gly	Glu	Ile	Glu	Glu	Thr	Ile	Thr	Glu	Ser	Phe	Gly	Asn	Asp
145						150				155				160	
His	Ser	Thr	Leu	Asp	Gly	Tyr	Ser	Arg	Arg	Thr	Thr	Leu	Ser	Ser	Lys
						165			170					175	
Met	Tyr	His	Thr	Lys	Gly	Gln	Glu	Gly	Ser	Val	Cys	Leu	Arg	Ser	Ser
						180			185					190	
Asp	Cys	Ala	Ser	Gly	Leu	Cys	Cys	Ala	Arg	His	Phe	Trp	Ser	Lys	Ile
						195			200					205	
Cys	Lys	Pro	Val	Leu	Lys	Glu	Gly	Gln	Val	Cys	Thr	Lys	His	Arg	Arg
						210			215					220	
Lys	Gly	Ser	His	Gly	Leu	Glu	Ile	Phe	Gln	Arg	Cys	Tyr	Cys	Gly	Glu
						225			230					240	
Gly	Leu	Ser	Cys	Arg	Ile	Gln	Lys	Asp	His	His	Gln	Ala	Ser	Asn	Ser
						245			250					255	
Ser	Arg	Leu	His	Thr	Cys	Gln	Arg	His							
						260			265						

<210> 22

<211> 272

<212> PRT

<213> Mus musculus

<400> 22

Met	Met	Val	Val	Cys	Ala	Pro	Ala	Ala	Val	Arg	Phe	Leu	Ala	Val	Phe
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Thr	Met	Met	Ala	Leu	Cys	Ser	Leu	Pro	Leu	Leu	Gly	Ala	Ser	Ala	Thr
						20			25					30	
Leu	Asn	Ser	Val	Leu	Ile	Asn	Ser	Asn	Ala	Ile	Lys	Asn	Leu	Pro	Pro
						35			40					45	
Pro	Leu	Gly	Gly	Ala	Gly	Gly	Gln	Pro	Gly	Ser	Ala	Val	Ser	Val	Ala
						50			55					60	
Pro	Gly	Val	Leu	Tyr	Glu	Gly	Gly	Asn	Lys	Tyr	Gln	Thr	Leu	Asp	Asn
						65			70					80	
Tyr	Gln	Pro	Tyr	Pro	Cys	Ala	Glu	Asp	Glu	Glu	Cys	Gly	Ser	Asp	Glu
						85			90					95	
Tyr	Cys	Ser	Ser	Pro	Ser	Arg	Gly	Ala	Ala	Gly	Val	Gly	Gly	Val	Gln
						100			105					110	

Ile Cys Leu Ala Cys Arg Lys Arg Arg Lys Arg Cys Met Thr His Ala
115 120 125
Met Cys Cys Pro Gly Asn Tyr Cys Lys Asn Gly Ile Cys Met Pro Ser
130 135 140
Asp His Ser His Phe Pro Arg Gly Glu Ile Glu Glu Ser Ile Ile Glu
145 150 155 160
Asn Leu Gly Asn Asp His Asn Ala Ala Ala Gly Asp Gly Tyr Pro Arg
165 170 175
Arg Thr Thr Leu Thr Ser Lys Ile Tyr His Thr Lys Gly Gln Glu Gly
180 185 190
Ser Val Cys Leu Arg Ser Ser Asp Cys Ala Ala Gly Leu Cys Cys Ala
195 200 205
Arg His Phe Trp Ser Lys Ile Cys Lys Pro Val Leu Lys Glu Gly Gln
210 215 220
Val Cys Thr Lys His Lys Arg Lys Gly Ser His Gly Leu Glu Ile Phe
225 230 235 240
Gln Arg Cys Tyr Cys Gly Glu Gly Leu Ala Cys Arg Ile Gln Lys Asp
245 250 255
His His Gln Ala Ser Asn Ser Ser Arg Leu His Thr Cys Gln Arg His
260 265 270